

The owner or operator shall then use the initial missing data procedures in § 75.31 following provisional certification, unless otherwise provided by § 75.34 for units with add-on emission controls.

(4) *Recertification application.* The designated representative shall apply for recertification of a continuous emission or opacity monitoring system used under the Acid Rain Program according to the procedures in paragraph (a)(2) of this section. Each complete recertification application shall include the information specified in § 75.63 of this part.

(5) *Approval/disapproval of request for recertification.* The procedures for provisional certification in paragraph (a)(3) of this section shall apply. The Administrator will issue a written notice of approval or disapproval according to the procedures in paragraph (a)(4) of this section, except that the period for the Administrator's review provided under paragraph (a)(4) of this section shall not exceed 60 days following receipt of the complete recertification application by the Administrator. The missing data substitution procedures under paragraph (b)(3) of this section shall apply in the event of a loss of recertification.

(c) *Certification procedures.* Prior to the deadline in § 75.4 of this part, the owner or operator shall conduct certification tests and in accordance with § 75.63, the designated representative shall submit an application to demonstrate that the continuous emission or opacity monitoring system and components thereof meet the specifications in appendix A to this part. The owner or operator shall compare reference method values with output from the automated data acquisition and handling system that is part of the continuous emission monitoring system being tested. Except as specified in paragraphs (b)(1), (d) and (e) of this section, the owner or operator shall perform the following tests for initial certification or recertification of continuous emission or opacity monitoring systems or components according to the requirements of appendix A of this part:

(1) For each SO₂ pollutant concentration monitor and NO_x continuous emission monitoring system:

(i) A 7-day calibration error test, where, for the NO_x continuous emission monitoring system, this test is performed separately on the NO_x pollutant concentration monitor and the diluent gas monitor;

(ii) A linearity check, where, for the NO_x continuous emission monitoring system, this check is performed separately on the NO_x pollutant concentration monitor and the diluent gas monitor;

(iii) A relative accuracy test audit;

(iv) A bias test; and

(v) A cycle time test.

(v) A cycle time/response time test.

(2) For each flow monitor:

(i) A 7-day calibration error test;

(ii) Relative accuracy test audits at three flue gas velocities; and

(iii) A bias test (at normal operating load).

(3) The relative accuracy test audits for the SO₂ pollution concentration monitor and the flow monitor shall be performed contemporaneously.

(4) The certification test data from an O₂ or a CO₂ diluent gas monitor certified for use in a NO_x continuous emission monitoring system may be submitted to meet the requirements of § 75.20(c)(5).

(5) For each CO₂ pollutant concentration monitor or O₂ monitor which is part of a CO₂ continuous emission monitoring system or is used to monitor heat input and for each SO₂-diluent continuous emission monitoring system:

(i) A 7-day calibration error test, where, for the SO₂-diluent system, this test is performed separately on each component monitor;

(ii) A linearity check, where, for the SO₂ diluent system, this check is performed separately on each component monitor;

(iii) A relatively accuracy test audit; and

(iv) A cycle-time test.

(6) The owner or operator shall ensure that certification or recertification of a continuous opacity monitor for use under the Acid Rain Program is conducted according to one of the following procedures:

(i) Performance of the tests for certification or recertification, according to the requirements of Performance Specification 1 in appendix B to part 60 of this chapter.

(ii) A continuous opacity monitoring system tested and certified previously under State or other Federal requirements to meet the requirements of Performance Specification 1 shall be deemed certified for the purposes of this part.

(7) For the automated data acquisition and handling system, tests designed to verify:

(i) Proper computation of hourly averages for pollutant concentrations, flow rate, pollutant emission rates, and pollutant mass emissions; and

(ii) Proper computation and application of the missing data substitution procedures in subpart D of this part and the bias adjustment factors in Section 7 of appendix A to this part.

(8) The owner or operator shall provide, or cause to be provided, adequate facilities for certification or recertification testing that include:

(i) Sampling ports adequate for test methods applicable to such facility, such that:

(A) Volumetric flow rate, pollutant concentration, and pollutant emission rates can be accurately determined by applicable test methods and procedures; and

(B) A stack or duct free of cyclonic flow during performance tests is available, as demonstrated by applicable test methods and procedures.

(ii) Basic facilities (e.g., electricity) for sampling and testing equipment.

(d) *Certification/recertification procedures for optional backup continuous emission monitoring systems*—(1) *Redundant backups*. The owner or operator of an optional redundant backup continuous emission monitoring system shall comply with all the requirements for initial certification and recertification according to the procedures specified in paragraphs (a), (b), and (c) of this section. The owner or operator shall operate the redundant backup continuous emission monitoring system during all periods of unit operation, except for periods of calibration, quality assurance, maintenance, or repair. The owner or operator shall perform upon

the redundant backup continuous emission monitoring system all quality assurance and quality control procedures specified in appendix B of this part.

(2) *Non-redundant backups*. The owner or operator of an optional non-redundant backup continuous emission monitoring system shall comply with all the requirements for initial certification and recertification according to the procedures specified in paragraphs (a), (b) and (c) of this section for each non-redundant backup continuous emission monitoring system, except that: the owner or operator of a non-redundant backup continuous emission monitoring system may omit the 7-day calibration error test for certification or recertification of an SO₂ pollutant concentration monitor, flow monitor, NO_x pollutant concentration monitor, or diluent gas monitor, provided the non-redundant backup system is not used for reporting on any affected unit for more than 720 hours in any calendar year. In addition, the owner or operator shall ensure that the certified non-redundant backup continuous emission monitoring system passes a linearity check (for pollutant concentration monitors) or a calibration error test (for flow monitors) prior to each use for recording and reporting emissions and complies with the daily and quarterly quality assurance and quality control requirements in appendix B of this part for each day and quarter that the non-redundant backup monitoring system is used to report data. If the owner or operator does not perform semi-annual or annual relative accuracy test audits upon the non-redundant backup continuous emission monitoring system, then the owner or operator shall recertify the non-redundant continuous emission monitoring system once every two calendar years, performing all certification tests applicable under this paragraph. However, if a non-redundant backup system is used for reporting data from any affected unit or common stack for more than 720 hours in any one calendar year, then reported data after the first 720 hours is not valid, quality-assured data unless the owner or operator has ensured that the non-redundant backup monitoring system has also passed the 7-day calibration error test, before data

is recorded for any period in excess of 720 hours for that calendar year for that monitoring system.

(3) *Reference method backups.* A monitoring system that is operated as a reference method backup system pursuant to the reference method requirements of Methods 2, 6C, 7E, or 3A in appendix A of part 60 of this chapter need not perform and pass the certification tests required by paragraph (c) of this section prior to its use pursuant to this paragraph.

(e) *Certification/recertification procedures for either peaking unit or by-pass stack/duct continuous emission monitoring systems.* The owner or operator of either a peaking unit or by-pass stack/duct continuous emission monitoring system shall comply with all the requirements for certification or recertification according to the procedures specified in paragraphs (a), (b), and (c) of this section, except as follows: the owner or operator need only perform one nine-run relative accuracy test audit for certification or recertification of a flow monitor installed on the by-pass stack/duct or on the stack/duct used only by affected peaking unit(s). The relative accuracy test audit shall be performed during normal operation of the peaking unit(s) or the by-pass stack/duct.

(f) *Certification/recertification procedures for alternative monitoring systems.* The designated representative representing the owner or operator of each alternative monitoring system approved by the Administrator as equivalent to or better than a continuous emission monitoring system according to the criteria in subpart E of this part shall apply for certification to the Administrator prior to use of the system under the Acid Rain Program, and shall apply for recertification to the Administrator following a replacement, modification, or change according to the procedures in paragraph (c) of this section. The owner or operator of an alternative monitoring system shall comply with the notification and application requirements for certification or recertification according to the procedures specified in paragraphs (a) and (b) of this section.

(1) The Administrator will publish each request for initial certification of

an alternative monitoring system in the FEDERAL REGISTER and, following a public comment period of 60 days, will issue a notice of approval or disapproval.

(2) No alternative monitoring system shall be authorized by the Administrator in a permit issued pursuant to part 72 of this chapter unless approved by the Administrator in accordance with this part.

(g) *Certification procedures for excepted monitoring systems under appendices D and E.* The owner or operator of a gas-fired unit, oil-fired unit, or diesel-fired unit using the optional protocol under appendix D or E of this part shall ensure that an excepted monitoring system under appendix D or E of this part meets the applicable general operating requirements of § 75.10, the applicable requirements of appendices D and E to this part, and the certification requirements of this paragraph.

(1) *Certification testing.* The owner or operator shall use the following procedures for certification of an excepted monitoring system under appendix D or E of this part.

(i) When the optional SO₂ mass emissions estimation procedure in appendix D of this part or the optional NO_x emissions estimation protocol in appendix E of this part is used, the owner or operator shall provide data from a calibration test for each fuel flowmeter according to the appropriate calibration procedures using one of the following standard methods: ASME MFC-3M-1989 with September 1990 Errata, "Measurement of Fluid Flow in Pipes Using Orifice, Nozzle, and Venturi", ASME MFC-4M-1986 (Reaffirmed 1990) "Measurement of Gas Flow by Turbine Meters", ASME MFC-5M-1985 "Measurement of Liquid Flow in Closed Conduits Using Transit-Time Ultrasonic Flowmeters", ASME MFC-6M-1987 with June 1987 Errata, "Measurement of Fluid Flow in Pipes Using Vortex Flow Meters", ASME MFC-7M-1987 (Reaffirmed 1992), "Measurement of Gas Flow by Means of Critical Flow Venturi Nozzles", ASME MFC-9M-1988 with December 1989 Errata, "Measurement of Liquid Flow in Closed Conduits by Weighing Method", ISO 8316: 1987(E) "Measurement of Liquid Flow in Closed Conduits—Method by Collection